

2 Williams Street  
Chelsea, MA 02150  
( 617 ) 889 - 6515



## INSPECTORATE

## QUALITY CERTIFICATE

Vessel	"Energy-11104"	Port	Providence, RI	Report	027107
Customer	Sprague Energy	Date	March 4, 2007	Reference	
Operation	Analysis	Terminal	Sprague Providence	Sample #	1130188

Name of material being tested  
Description of sample source  
Samples Drawn by (company)  
Samples Tested by (company)

**1.0% No 6 Fuel Oil**

Shore Tank #6 After Discharge  
Inspectorate  
Inspectorate

Tests being Performed	Test method	Sample Results		
Gravity API @ 60F / Denisty	D - 4052	12.1	/	0.9851
Flash Point, PMCC, F	D - 93		204	
Viscosity cSt @ 122F	D - 445		397.2	
Viscosity SSF @ 122F	D - 2161		187.4	
Pour Point C / F	D - 97		0 / 32	
Sulfur, Wt%	D - 4294		0.635	
Water and Sediment, Vol %	D - 1796		0.010	
Sediment by Extraction, wt%	D - 473		0.02	
Water by Distillation, Vol%	D - 95		<0.01	
Gross Heat of Combustion, BTU / lb	D - 240		18,605	
Gross Heat of Combustion, BTU / gal	D - 240		152,678	
Ash, wt %	D - 482		0.05	
Vanadium, ppm	D - 5863B		14	
Sodium, ppm	D - 5863B		7	
Nitrogen, wt%	D - 5762		0.435	
Ashphaltenes, wt%	IP - 143		1.28	
Conradson Carbon Residue	D - 189		8.35	
Aluminum, ppm	D - 5184		46	
Silicon, ppm	D - 5184		3	
<p>SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN WRITING IN ANY CONTRACT OF TERMS OF SALE BETWEEN SPRAGUE AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.</p>				

\*\* Annotates Analysis Contracted Out

\*\*\* Annotates Loadport information- this test was not performed by Inspectorate